

Serial No. 08/944,850  
Filed: October 6, 1997

In the Claims

Please cancel claims 28-38.

Please add the following new claims:

- 39. An assay method comprising:

a) providing a sensor array comprising:

- i) at least a first subpopulation comprising first sensor elements; and
- ii) a second subpopulation comprising second sensor elements;

b) adding a sample comprising a first target analyte that binds to said first sensor elements;

c) measuring first fluorescent signals of at least two of said sensor elements of said first subpopulation; and

d) summing said first fluorescent signals.

40. A method according to claim 39 further comprising:

b) adding a sample comprising a second target analyte that binds to said second sensor elements;

c) measuring second fluorescent signals of at least two of said sensor elements of said second subpopulation; and

d) summing said second fluorescent signals.

41. A method according to claim 39 wherein said elements comprise beads.

42. A method according to claim 39 wherein said sensor array comprises beads distributed in wells.

43. A method according to claim 39 wherein said sensor elements comprise chemical functional